CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CEMENT/2014-15

Date: 07.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and Drains at Yelagamma and Kalappa Layout in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/KRIDL/WO/461/2014-15 Dated: 21.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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Job No:- CTCE/BBMP/W.No.10/KRIDL/SAND/2014-15 : 07.07.20

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Roads and Drains at Yelagamma and Kalappa Layout in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/KRIDL/WO/461/2014-15 Dated: 21.02.2014

Date of Testing : 07.07.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limi For Zone-
10	0	0	0	100	100
4.75	42	4.20	4.20	95.8	90-100
2.36	115	11.50	15.70	84.3	75-100
1.18	205	20.50	36.20	63.8	55-90
600 Micron	256	25.60	61.80	38.2	35-59
300 Micron	175	17.50	79.30	20.7	8-30
150 Micron	156	15.60	94.90	5.1	0-10

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Job No: CTCE/BBMP/W.No.10/KRIDL/AGG/2014-15 : 07.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Roads and Drains at Yelagamma and Kalappa Layout in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/KRIDL/WO/461/2014-15 Dated: 21.02.2014

Date of Testing : 07.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	310	3.10	3.10	96.90	95-100
20	5265	52.65	55.75	44.25	30-70
10	2960	29.60	85.35	14.65	10-35
4.75	1235	12.35	97.70	2.30	0-5

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2014-15 11.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Roads and Drains at Yelagamma and Kalappa Layout in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/KRIDL/WO/461/2014-15 Dated: 21.02.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.07.2014	11.08.2014	8.367	498.3	22.15
2	14.07.2014	11.08.2014	8.293	486.2	21.61
3	14.07.2014	11.08.2014	8.475	512.9	22.80

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TEST REPORT ON CONCRETE CUBES

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2014	13.08.2014	8.247	506.3	22.50
2	16.07.2014	13.08.2014	8.362	514.7	22.88
3	16.07.2014	13.08.2014	8.475	528.9	23.51

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TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2014	15.08.2014	8.163	483.9	21.51
2	18.07.2014	15.08.2014	8.297	499.6	22.20
3	18.07.2014	15.08.2014	8.362	510.4	22.68

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TEST REPORT ON CONCRETE CUBES

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2014	18.08.2014	8.237	495.2	22.01
2	21.07.2014	18.08.2014	8.476	523.6	23.27
3	21.07.2014	18.08.2014	8.382	512.8	22.79

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